AMPERITE *Solving Your Timing Requirements Since 1922*

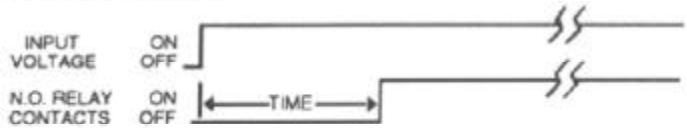
C10 Series TDR

Solid state analog circuitry
Delay on operate timing mode
DPDT (2 form C) isolated 10 ampere relay contacts
Timing selection: Knob adjustable or Fixed
Numerous models timing from 0.1 secs. to 480 secs.
UL File #E96739 (M)
CSA File # LR62586-3

Specifications

Timing Mode:
Delay on operate timing cycle begins upon application of input power. The relay contacts transfer at the end of the delay period and will remain transferred until input voltage is removed. Reset occurs when input voltage is removed.

Timing Diagram:



Contact Information:
Arrangement: 2 form C (DPDT) - Diagram C
Contact Material: Silver - Cadmium Oxide
Rating (Resistive):
10A @ 240V AC Resistive
15A @ 30V DC Resistive
15A @ 120V AC Resistive
1/3 HP @ 120V AC
1/2 HP @ 250V AC
Expected Life @ 25°C:
10 Million operations, Mechanical
100,000 operations minimum at rated loads

Environmental Information:
Temperature Range:
Storage: -60°C to +105°C (-76°F to +221°F)

Operating: -45°C to +70°C (-49°F to +158°F)

Mechanical Information:
Termination: 8 Pin Octal Style Plug or 11-Pin Spade Terminals (Dia. C&D)
Enclosure: White plastic case. Knob adjustable models have a dial scale for reference only. "LC" version has a black case.
Weight: 4 on (114g) approx.

Outline Dimension: (Octal Style)
Contact Factory for 11-Pin Style

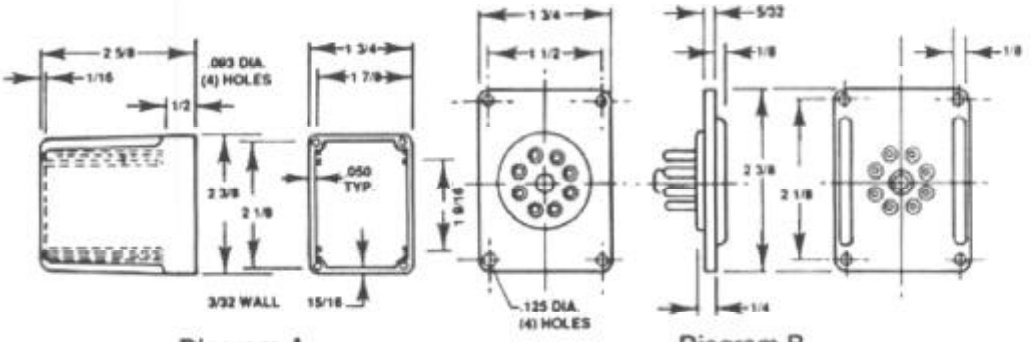


Diagram A Diagram B

Timing Specifications:
Timing - Fixed: 0.1 through 480 secs.
Timing Ranges: 0.1 - 60, 60 - 120, 120 - 180, 180 - 240, 240 - 300, 300 - 480 secs. Custom timing is available.
Timing Adjustment: Knob adjustable potentiometer.
Timing Tolerance: Fixed Units: ±5%. Adjustable Units: -0 to +25% of maximum specified delay time. Minimum specified value or less at low end.
Repeatability: +/-5%
Release Time: 60 ms typical, 100 ms maximum
Timing Cycle Interrupt Transfer: None

Initial Dielectric Strength:
Between open contacts: 1000V RMS, Between adjacent contact: 1500V RMS
Between contacts & coil: 1500V RMS

Input Information:
Voltage:
AC units- 12V, 24V, and 120V. Other voltages are available.
DC units- 12V, 24V, 48V and 110V. Other voltages are available.
Power Requirement: AC units: 3 VA or less, DC units 3 Watts or less
Transient Protection: 1 JOULE MOV
Polarity Protection: On DC units - Yes

Input Voltages & Limits:

Nominal	Minimum	Maximum
12V AC	10V	14V
24V AC	20V	28V
120V AC	105V	130V
12V DC	11V	14V
24V DC	20V	32V
48V DC	41V	55V
110V DC	95V	125V

Wiring Diagrams:

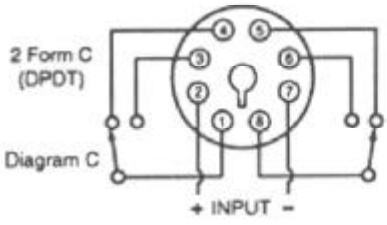


Diagram C

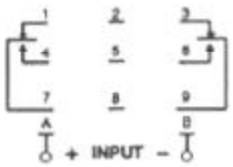


Diagram D

Ordering Information:

Definition of a part number for the Amperite C10 Series Time Delay Relay.
Example:

120 A P .1 -60 L C
A B C D E F G

A: Denotes nominal input voltage. Voltages Available:
12, 24 & 120V AC; 12, 24, 48 & 110V DC. Custom Voltages are available.

B: Denotes type of input current required for operation:
A = AC - Alternating Current
D = DC - Direct Current

C: Denotes contact form:
P= DPDT - 2 form C.

D & E: Denotes range of knob adjustability for timing (in seconds) where:
D= Minimum time delay.
E= Maximum time delay for adjustable TDR's.
Note:
1.) Ranges available: 0.1 - 60, 60 - 120, 120 - 180, 180 - 240, 240 - 300 & 300 - 480 secs. Custom timing is available.
2.) Both values (D & E) can be replaced by a single value for a factory preset time delay in seconds from 0.1 through 480 secs.

F: Enter "L" if optional 11-pin spade terminals are required (Dia. D). Call factory for dimensional differences.

G: Denotes use of solid-state analog circuitry of C10 series.